

## CLAIMS

- 1 1. A thermal battery system comprising:
  - 2 a housing;
  - 3 an electrical energy supplying assembly for supplying electrical power
  - 4 when heated to operating temperatures mounted within said housing
  - 5 a wire heating assembly mounted within said housing for heating said
  - 6 electrical energy supply assembly to operating temperatures.
- 1 2. The thermal battery system as set forth in claim 1 further comprising
  - 2 said housing containing a first insulation layer mounted about said at least a
  - 3 portion of said electrical energy supplying assembly.
- 1 3. The thermal battery system as set forth in claim 2 further comprising
  - 2 said wire heating element assembly mounted within said insulation layer.
- 1 4. The thermal battery system as set forth in claim 1, or 2, or 3, further
  - 2 including means to adjust the level of heating produced by said wire heating
  - 3 assembly.
- 1 5. The thermal battery system as set forth in claim 4 wherein said wire
  - 2 heating assembly is made of nickel-chrome wire.
- 1 6. The thermal battery system as set forth in claim 5 comprising:
  - 2 a second ridged insulation layer mounted within said first insulation
  - 3 layer; and
  - 4 said wire-heating assembly mounted about at least a portion of said
  - 5 second ridged insulation layer.

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1 7. The thermal battery system as set forth in claim 6 further including  
2 means coupled to said electrical energy supplying assembly for recharging  
3 same.

1 8. A thermal battery system comprising:  
2 a first housing;  
3 an electrical energy supplying assembly for supplying electrical power  
4 when heated to operating temperatures mounted within said first housing;  
5 a wire heating assembly mounted about said first housing for heating  
6 said electrical energy supply assembly to operating temperatures; and  
7 a second housing mounted about said fist housing and said wire-  
8 heating assembly.

1 9. The thermal battery system as set forth in claim 8 further comprising  
2 said first housing containing a first insulation layer mounted about said at least  
3 a portion of said electrical energy supplying assembly.

1 10. The thermal battery system as set forth in claim 9 further comprising a  
2 second insulation layer mounted between said first and second housings  
3 about said wire heating element assembly.

1 11. The thermal battery system as set forth in claim 8, or 9, or 10, further  
2 including means to adjust the level of heating produced by said wire heating  
3 assembly.

1 12. The thermal battery system as set forth in claim 11 wherein said wire  
2 heating assembly is made of nickel-chrome wire.

1 13. The thermal battery system as set forth in claim 12 further including  
2 means coupled to said electrical energy supplying assembly for recharging it.